CAMS & STAMS and the Australian Curriculum

CAMS & STAMS and the Australian Curriculum — Level C

Each book in the CAMS® Plus, STAMS® Plus and Solve® Series covers a range of Australian Curriculum content descriptions spread across two year levels. This allows teachers to select lessons for remediation or extension based on each student's needs. The content descriptions addressed by the lessons in Book C are listed here. Please note that not all the content descriptions for years 3 and 4 are addressed by these 16 standard lessons and 1 additional lesson (presented in bold), as the focus of the CAMS® Plus, STAMS® Plus and Solve® Series is on fundamental maths skills and concepts. For more information on the Australian Curriculum go to: www.australiancurriculum.edu.au/

Australian Curriculum Content Descriptions			Relevant Lessons
Year 3	ACMNA052	Recognise, model, represent and order numbers to at least 10 000	1
	ACMNA053	Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems	1
	ACMNA054	Recognise and explain the connection between addition and subtraction	2
	ACMNA055	Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation	2 5 6
	ACMNA056	Recall multiplication facts of two, three, five and ten and related division facts	3 4 5 6 7
	ACMNA057	Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies	3 4 5 6 7
	ACMNA058	Model and represent unit fractions including 1/2, 1/4, 1/3, 1/5 and their multiples to a complete whole	8 9 10 11 14
	ACMMG061	Measure, order and compare objects using familiar metric units of length, mass and capacity	14 15
	ACMMG066	Identify symmetry in the environment	13
	ACMSP069	Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies	16
	ACMSP070	Interpret and compare data displays	16
Year 4	ACMNA072	Recognise, represent and order numbers to at least tens of thousands	1
	ACMNA073	Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems	1 2
	ACMNA074	Investigate number sequences involving multiples of 3, 4, 6, 7, 8, and 9	4
	ACMNA075	Recall multiplication facts up to 10 × 10 and related division facts	3 4 5 6 7
	ACMNA076	Develop efficient mental and written strategies and use appropriate digital technologies for multiplication and for division where there is no remainder	4 5 6 7
	ACMNA077	Investigate equivalent fractions used in contexts	9 10 11
	ACMNA078	Count by quarters halves and thirds, including with mixed numerals. Locate and represent these fractions on a number line	8 9 10 11 12 14
	ACMNA082	Solve word problems by using number sentences involving multiplication or division where there is no remainder	3
	ACMNA083	Use equivalent number sentences involving addition and subtraction to find unknown quantities	2
	ACMMG084	Use scaled instruments to measure and compare lengths, masses, capacities and temperatures	14 15
	ACMMG087	Compare the areas of regular and irregular shapes by informal means	17
	ACMMG088	Compare and describe two dimensional shapes that result from combining and splitting common shapes, with and without the use of digital technologies	13
	ACMMG091	Create symmetrical patterns, pictures and shapes with and without digital technologies	13
	ACMSP096	Construct suitable data displays, with and without the use of digital technologies, from given or collected data. Include tables, column graphs and picture graphs where one picture can represent many data values	16

Scope and Sequence Chart

The chart below shows how instruction of key maths concepts and skills tracks across the different levels of the *STAMS® Plus Series*, Books A–H.

Number and Algebra		A	B	C	D	E	F	G	H
Counting									
	Count within 1000	✔	✔						
	Skip count by 5s, 10s and 100s	✔							
	Even and odd numbers	✔							
Place Value									
	Understand place value	✔	✔	✔					
	Represent 2- and 3-digit numbers	✔	✔						
	Compare 2- and 3-digit numbers	✔	✔						
Addition									
	Understand addition	✔	✔						
	Fact strategies	✔	✔						
	Fact families	✔	✔						
	Add mentally	✔							
	Add within 100 with and without regrouping	✔	✔	✔					
	Work with equal groups to gain foundations for multiplication		✔						
Subtraction									
	Understand subtraction	✔	✔						
	Relate subtraction to addition		✔						
	Fact strategies	✔	✔						
	Fact families	✔	✔						
	Subtract mentally	✔							
	Subtract within 100 with and without regrouping	✔	✔	✔					
Multiplication									
	Understand multiplication		✔	✔					
	Fact strategies			✔					
	Fact families			✔					
	Multiplication properties				✔				
	Multiply mentally				✔				
	Multiply by 1- and 2-digit numbers				✔				
	Multiply by 3-digit numbers					✔			
Division									
	Understand division			✔					
	Relate division to multiplication			✔	✔				
	Fact families			✔					
	Divide with and without regrouping				✔				
	Divide mentally					✔			
	Estimate quotients					✔			
	1- and 2-digit divisors					✔			
	Zeros in the quotient					✔			

Scope and Sequence Chart

Number and Algebra (continued)	BOOKS							
	A	B	C	D	E	F	G	H
Fractions								
Understand fraction concepts			✔					
Equivalent fraction			✔	✔				
Simplify fractions				✔				
Benchmark fractions			✔					
Compare fractions			✔					
Understand improper fractions and mixed numbers			✔		✔			
Add and subtract like fractions					✔			
Compare related and unlike fractions					✔			
Add and subtract related fractions					✔			
Add and subtract mixed number					✔			
Multiply and divide whole numbers by fractions						✔		
Multiply and divide fractions by fractions						✔		
Decimals								
Understand decimal place value				✔				
Compare and order decimals				✔				
Relate decimals to fractions				✔				
Add and subtract decimals					✔			
Multiply and divide decimals by powers of 10						✔		
Multiply and divide decimals by whole numbers						✔		
Multiply and divide decimals by decimals						✔		
Integers								
Understand integers							✔	
Add and subtract integers							✔	
Multiply and divide integers							✔	
Operations and algebraic thinking								
Solve word problems			✔	✔	✔	✔	✔	✔
Understand inverse operations			✔	✔	✔	✔	✔	✔
Ratios and proportional relationships								
Understand ratios						✔		
Percentage as a ratio						✔	✔	
Solve equations with ratios						✔		
Solve percentage problems						✔	✔	
Understand rates and solve rate problems						✔	✔	
Understand proportional relationships						✔	✔	
Solve proportions						✔	✔	
Expressions and equations								
Evaluate expressions							✔	
Exponents								✔
Square roots								✔
Solve equations using number sense						✔		
Solve equations using inverse operations						✔	✔	✔
Use formulas			✔	✔	✔	✔	✔	✔
Equations with rational numbers							✔	
Nonlinear equations								✔
Solve two-step equations								✔
Gradient								✔
Graph linear equations								✔
Solve sets of simultaneous equations graphically								✔
Solve sets of simultaneous equations algebraically								✔

Scope and Sequence Chart

Measurement and Geometry	BOOKS							
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
Plane geometry								
Plane shapes			✔					
Angles				✔				
Special angle pairs								✔
Angle sums								✔
Similarity concepts							✔	
Triangle similarity								✔
Linear measurement and area								
Length			✔					
Perimeter			✔					
Area concepts				✔				
Area of rectangles				✔				
Area formulas				✔	✔			
Circumference and area of circles							✔	
Pythagorean theorem								✔
Distance formula								✔
Surface area and volume								
Surface area of rectangular prisms					✔			
Volume concepts					✔			
Volume of rectangular prisms						✔		
Surface area and volume of cylinders							✔	
Statistics and Probability								
Graphs								
Picture graphs			✔					
Column graphs			✔					
Dot plots				✔				
Line graphs					✔			
Pie charts							✔	
Scatter plots								✔
Statistics								
Mean, median, range								✔
Probability								
Theoretical probability							✔	

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